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ABSTRACT

The development and relationship of two dimmedian of personality, self esteem and locus of control, were examine and study of 763 fourth, eighth, and twelfth grade Indian and wo children selected from 22 Oklahoma public schools. The student given the Coopersmith Self-Esteem Inventory and Nowicky-Stricking Locus of Control Scale during/the fall of the 1975-76 school year Results indicated that Indian and white children did not significantly differ in their developmental level of self esteem until the junior high school grades. At that time Indian children were significantly lower in self esteem and this difference percent through the high school grades. Concerning the development of locus of control, both groups tended to become more intermal with are. (Internal control of reinforcement was the degree to which a individual believed his reinforcements were dependent upon his two behaviors; external controls were those forces he falt to be beyon\* his control, such as luck or chance.) White children perceive themselves as having more control over their actions. The only exceptions to this were found at the twelfth grade and only for males. Locus of control was significantly related to self estate for both Indian and white children at all three grade levels. For \*welf. grade students the relationship varied according to ethnicity; it was significantly stronger for Indians than whites. (DS)

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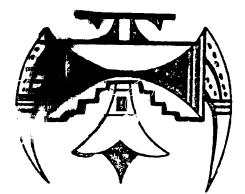


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## IN THIS ISSUE

Survey of Off-Reservation Residential Schools in the Bureau of Indian Affairs - A Committee Report" Dan Sahmeunt

> "A Step Toward Fairness in Evaluating Handicapped Indian Children"

> "A Formula for Weighing Culture Items on the WISC-R & WAIS"

> > Bruce S. Pray, Sr.

Locus of Control and Self-Esteem in Indian and White Students" James C. Martin

"Developing an Orientation Manual for Non-Indian Teachers of Indian Students: A Case Study on the Papago Reservation" Jan McFariane

Volume 7

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THEME: SCHOOLS BELONG TO THE PEOPLE



# CONTENTS

Survey of Off-Reservation Residential Schools in the Bureau of Indian Affairs — A Committee Report
A Step Toward Fairness in Evaluating Handicapped Indian Children  A Formula for Weighing Culture Items on the WISC-R & WAIS
Locus of Control and Self-Esteem in Indian and White Students
Developing an Orientation Manual for Non-Indian Teachers of Indian Students: A Case Study on the Papago Reservation
Inside Back Cover Guidelines for Submissions of Articles Research Council Editor

The views expressed in the articles are those of the authors and are not necessarily of the Bureau of Indian Affairs or the BIA Research Council.

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TO IMPROVING INDIAN EDUCATION



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#### LOCUS OF CONTROL AND SEED ESTEEM IN INDIAN AND WHITE ST

James Marti

Rotter (1966) identified the core et of in an al-external control of reinforcement (I-E) as being the carrier which an individual that alon his own behaviors believes his reinforcements are idean beyond his control, such as (internality) or are controlled by f make subsequently attemptluck or chance (external ty). Resea arious personality variables. ed to relate locus of control Externality has been correlated and low-eg strength (Erikson and mem Warehime and Foulds, Roberts, 1971) and poor personal m (1975) found that externals 1971). Lombardo, Fantasia, and Soexhibited less self-acceptance that the self-acceptance that the self-acceptance and Crandall (1975) found that externals per med lower than internals on psychsocial developmental risks. Gerall, it appears that an external locus of control orie ation a associated with negative personality characteristics whi positive personality characterists

A review of I-E research reflected > spsence of studies which utilized children from differer camic or tural groups as subjects. research which examines the Obviously, there is a need for anc personality adjustment in relationship between locus of and The purpose of the present children from different ethn. between locus of control and study was to examine the rela and white children. Ethnic self-esteem in American In were also examined. differences in self-esteem and

Historically, American India rejected, depressed, and without 1965). Splindler and Splindler doubts about their personal an that the Indian is plagued v inadequacy, Similarly, Colen view themselves as being concept. From these findings would score lower than wh 3 ( esteem.

In terms of locus control, a little is known about the dewice; Rotter (1963) found that lover-cass blacks were more external than

n have been found to be more man white children (Bryde, and that Indians have serious while Berry (1969) concluded args of alienation, anxiety, and 366) reported that Indians tend to r to whites on measures of selfms probable that Indian children measures of self-concept or self-

ew of the literature indicated that ent of this dimension of personality in Indian children. In companie olack and white children, Battle and

\*The present study was based on a more imprehensive review of Indian education in



Oklahoma. See Ok nhoma Indian Educt a Needs Assessment, Stillwater, Oklahoma: Oklahoma State University, College of societion, 1976.

lower-class whites in another were more external man white than blacks. In mener: Strickland, 1973) have for miternal with against and concept.

and that Indians were more external evious researchers (Nowicki and tlocus of control becomes increasing ternality relates positively to self-

In the present expersion, it is was predicted that white children would evidence higher esteem scores than Indian children. A second prediction was at time locus of control dimension would children and that indian would be more externally oriented than whites. Finally, it was a dict of that internality would be positively related to self-esteem and behind and white children.

# Methodology

The Sample. Subjects for the present study were selected from 22 public school system in Oklahoma. Each of the schools had a high enrollment of American Indian children. An Indian student was defined as being one-quarter or more degree of Indian blood. In each school system, an equal proportion of Indian and white children were randomly selected from the fourth, eighth, and twelfth grades. The total sample consisted of 254 (135 Indians, 119 whites) fourth-grade students, 290 (149 Indians, 141 whites) eighth-grade students, and 219 (111 Indians, 108 whites) twelfth-grade students.

The Instruments. Self-esteem was measured by the short form of the Coopersmith Self-Esteem Inventory (Coopersmith, 1967). The short version of the Coopersmith Self-Esteem Inventory (CSEI) contains seven high esteem items ("I'm a lot of fun to be with") and eighteen low-esteem items ("I often wish I were someone else"). An individual's score is the sum of the number of high esteem items marked in the precitive "Like Me" direction and the number of low-esteem items marked in the negative "Unlike Me" direction. The higher an individual's total score on the CSEI, the higher his subjective evaluation of himself.

Locus of control was measured by the Nowicky-Strickland Locus of Control Scale (Nowicki and Strickland, 1973). The Nowicki-Strickland Locus of ontrol Scale (NSLCS) consists of 40 questions which are answered either yes or no by placing a mark by each question. The construction of items for the NSLCS was based on Rotter's definition of the internal-external control of reinforcement. An individual's total score is the total number of items marked in the external direction. Thus, the higher an individual's total score, the more external is his because of control orientation.

Collection of Data. In each school the randomly selected samples of Indian and white children were administered the CSEI and the NSLCS. The instruments were administered in group settings with no time limits. When necessary, the questions were read out loud to the



fourth-grade students students were to the 1975-76 school year d during the fall term of

Results and Discussion

The initial hypothesis if the present stary was concerned with differences in self-esteer Detween Indian a: white children. It was predicted that white students would evidence Ligher self-esteem than Indian students. An analysis of the CSEI scores for Indian and white students revealed significant differences at the eighth and twelfth grades. The eighth-grade andian students ( $\overline{X}$  = 13.84, SD = 4.38) scored significantly lower than the eighth-grade was te students (X = 15.17, SD = 4.65) on the CSEI (t = 2.51, p < .01 on a one-tailed test). Similarly, the twelfth-grade Indian students ( $\bar{X} = 15.86$ , SD = 4.67) scored significantly lower than the twelfth-grade white students ( $\bar{X}$  = 17.50, SD = 4.77) on the CSEI (t = 2.59, p < .01 e a one-tailed test). No significant difference in self-esteem was found at grade four. In terms of developmental trends, it seems that the present sample of elementary Indian and white students eld not differ in their subjective evaluations of themselves. However, in the junior and senior high school grade levels Indian students evidenced lower subjective evaluations or self-esteem than did white students.

A second hypothesis of the present study was hat the locus of control dimension would become more internal with are for both Indian and white children and that Indian children would be more externally oriented than white children. Table I presents the means and standard deviations for the Indian and white students' NCLCS scores by sex. From Table I it can be seen that Indian and white students' mean NSCLS scores decreased as the grade level increased. The lower the score on the NSCLS, the more internal the individual's locus of control orientation.

For Indian males, fourth-grade students were significantly more external than eighth-grade students (t = 3.38, p < .01 on a one-tailed test) and eighth-grade students were significantly more external than twelfth-grade students (t = 6.23, p<.01 on a one-tailed test). For white males, fourth-grade students were more external than eighth-grade students (t = 5.07, p<.01 on a one-tailed test) and eighth-grade students were more external than twelfth-grade students (t = 3.55, p < .01 on a one-tailed test). Similar results were found for Indian and white females. Fourth-grade Indian females were more external than eighth-grade Indian females (t = 4.72, p < .01 on a one-tailed test) and eighth-grade Indian females were more external than twelfth-grade Indian females (t = 3.93, p < .01 on a one-tailed test). Finally, fourthgrade white females were more external than eighth-grade white females (t = 4.22, p<.01 on a one-tailed test) and eighth-grade white females were more external than twelfth-grade white females (t = 3.85, p < .01 on a one-tailed test). In view of these findings, it appears that the locus of control dimension gradually becomes more internal



with increments in age. This developmental trend of becoming more internal with age seems to be present in both Indian and white children.

Hypothesis two also predicted that Indian children would be more externally oriented than white children. This prediction was tested for males and form as at grades four eight, and twelve. The results of the comparison, are presented in Table I. It can been seen from Table I that Indian males scared significantly higher than white males on the NDLCS at adea four and eight. No difference was found at grade twelve. The results imply that Indian males were more externally oriented than white males at grades four and eight. Table I also shows that Indian girls were more externally oriented than white girls at grades four, eight, and twelve.

A final hypothes sof the present study involved a proposed relationship betwen locul of control and self-esteem. It was predicted that internality would be positively related to self-esteem for both Indian and white chiliren. In other words, internals should evidence higher subjective evaluations (self esteem) than externals. To examine the proposed relationship, Pearson Product-Moment correlation coefficients (r) were computed between the Indian and white students' CSEI and NSLCS scores at grades four, eight, and twelve. Table II shows the obtained correlation coefficients (r). It can be seen from Table II that locus of control was significantly related to self-esteem for both Indian and white children This relationship was found at grades four, eight and twelve. It should be noted that the NSLCS was scored in an external direction Thus, a significant negative correlation coefficient between NSLCS and CSEI scores meant that a decrease in external control was sociated with an increase in selfesteem. The results imply that cernality was positively related to self-esteem for both adian and white children.

After establishing that locus of control was related to self-esteem in both Indian and white children, a question arose regarding the strength of the relationship. More specifically, did the relationship between locus of control and self-esteem vary according to the ethnicity of the students? To answer this question, the correlation coefficients obtained from the Indian and white students' NSLCS and CSEI scores were tested for significant differences. Fisher's Z scores were computed from Indian and white students' correlation coefficients at grades four, eight, and twelve. The results of the comparisons are presented in Table II. It can be seen from Table II that the Fisher's Z value was not significant for grades four and eight. However, at grade twelve the relationship between locus of control and self-esteem was significantly stronger for Indians than whites. Thus, for twelfth-grade students, the relationship between locus of control and self-esteem varied according to ethnicity.

# Conclusions

Previous research (Splinder and Splinder, 1957; Berry, 1969; and Coleman, 1966) has indicated that Indian children do not develop as well as white children, in terms of personal or psychological development. The present study examined the development of two dimensions of personality, self-esteem and locus of control, in Indian and white children. The study also attempted to identify how selfesteem was related to locus of control in children from both ethnic groups. From an analysis of the results from the present study, it was concluded that Indian and white children do not significantly differ in their developmental level of self-esteem until the junior high school grades. At the junior high school level, the Indian children are significantly lower than white children in terms of self-esteem and this difference in level of self-esteem persists throughout the high school grade levels. Perhaps a focus for future research should be the period of transition from elementary to junior high school. It should be noted that this transitional period correlates with the onset of adolescence and it could be that Indian and white children may differ in their reactions to adolescence.

Concerning the development of locus of control in Indian and white children, the following conclusions were formulated. First, both Indian and white children tend to become more internal with age. As a child becomes older, he apparently feels that his behavior is controlled more by himself than by others. This finding is consistent with previous research (Nowicki and Strickland, 1973). Second, white children perceive themselves as having more control over their actions than do Indian children. This difference was found at all three grade levels. The only exception to this was found at the twelfth grade and only for males. It seems that Indian and white children do differ in their locus of control orientation and this difference is evident by the should specifically identify what factors influence the development of locus of control and determine if the contribution made by these factors is affected by ethnicity.

A final purpose of the present study was to determine if locus of control was related to self-esteem in Indian and white children. It was concluded that internality is positively related to self-esteem for both Indians and whites. This finding indicates that an internal locus of control orientation is associated with good mental health. It was further concluded that the strength of this relationship between locus of control and self-esteem is different for whites than Indians at the high school level. Future research should examine the possibility of developing an individual's internal locus of control orientation. It could be that by increasing one's internal locus of control orientation his subjective evaluation (self-esteem) of himself may show a corresponding improvement.



In summary, the present study has studied the development of two dimensions of personality in Indian and white children. It should be noted that the Indian children utilized in the present study were attending Oklahoma public schools and may not be representative of Indian children from other states. Ethnic differences in self-esteem and locus of control orientation were found at three grade levels. The causes of these differences was not a concern of the present study, but was left for future researchers to identify. It was also found that internality was positively related to social or personal adjustment for both Indian and white children and, more importantly, that at the high school level this relationship was stronger for Indians than whites. This finding suggests that the strength of the relationship between certain personality variables may be a function of ethnicity or cultural background.

TABLE I
TEST FOR DIFFERENCE BETWEEN INDIAN AND WHITE SUBJECTS' NSLCS SCORES BY SEX

		Male					Female		
N	<u> </u>	SD	t	P	_ N	X	SD_	t	P
72	19.43	3.96	1.78	.05	63	19.56	3.69	9.99	.05
55	18.11	4.31			64	17.83	4.69	1 2.25	.00
						-		,	
6.1	17.03	4.41	3.84	.01	85	16.16	1 78	9 29	.05
62	13.90	4.68	0.01		79			7.23	.00
56	11.79	4.88	1.24	ns.	55	12.82	5.18	1.85	.05
50	10.56	5.33			58	10.98	5.43	1.00	.0.1
	55 64 62 56	72 19.43 55 18.11 64 17.03 62 13.90 56 11.79	N X SD  72 19.43 3.96 55 18.11 4.31 64 17.03 4.41 62 13.90 4.68 56 11.79 4.88	N X SD t  72 19.43 3.96 1.78 55 18.11 4.31  64 17.03 4.41 3.84 62 13.90 4.68  56 11.79 4.88 1.24	N X SD t P  72 19.43 3.96 1.78 .05 55 18.11 4.31  64 17.03 4.41 3.84 .01 62 13.90 4.68  56 11.79 4.88 1.24 n.s.	N         X         SD         t         P         N           72         19.43         3.96         1.78         .05         63           55         18.11         4.31         64           64         17.03         4.41         3.84         .01         85           62         13.90         4.68         79           56         11.79         4.88         1.24         n.s.         55	N         X         SD         t         P         N         X           72         19.43         3.96         1.78         .05         63         19.56           55         18.11         4.31         64         17.83           64         17.03         4.41         3.84         .01         85         16.16           62         13.90         4.68         3.84         .01         85         14.41           56         11.79         4.88         1.24         n.s.         55         12.82	N         X         SD         t         P         N         X         SD           72         19.43         3.96         1.78         .05         63         19.56         3.69           55         18.11         4.31         64         17.83         4.69           64         17.03         4.41         3.84         .01         85         16.16         4.78           62         13.90         4.68         79         14.41         5.03           56         11.79         4.88         1.24         n.s.         55         12.82         5.18	N X SD t P N X SD t  72 19.43 3.96 1.78 .05 63 19.55 3.69 2.29 55 18.11 4.31 64 17.83 4.69 64 17.03 4.41 3.84 .01 85 16.16 4.78 2.29 62 13.90 4.68 79 14.41 5.03  56 11.79 4.88 1.24 n.s. 55 12.82 5.18 1.85

TABLE II
PEARSON PRODUCT-MOMENT CORRELATION COEFFICIENTS BETWEEN INDIAN AND WHITE SUBJECTS CSEI AND NSLCS SCORES

N	r	P	Z	P	
135	32	.01	.62	ns	_
119	39	.01			
				•	
149	- 51	.01	.68	ns.	
141	56	.01		14.57	
111	55	.01	2 00	0.5	
103	34	.01			
	135 119 149 141	13532 11939 149 - 51 14156	13532 .01 11939 .01 14951 .01 14156 .01	13532 .01 .62 11939 .01 14951 .01 .68 14156 .01	13532 .01 .62 n.s. 11939 .01  14951 .01 .68 n.s. 14156 .01

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Contributions are welcomed by the Branch of Research staff. The following guidelines are offered as an evaluation outline of your proposed article:

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- 3. Does it provide accurate descriptive, historical, or statistical data?
- 4. Is it an objective presentation?
- 5. Is it clear and concise?
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